

ABSTRACT

[0044] Processes for making acrylic acid / allyl ether copolymers are provided wherein hypo phosphorous acid and its salts are used as chain transfer agents during the polymerization process. The hypo phosphorous acid feed time is regulated in comparison to the feed time of the acrylic acid feed at a duration of about 0-75% hypo phosphorous acid feed : total acrylic acid feed time. Phosphorus containing copolymers made by the processes are also disclosed.